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$$\text{N}_2 + 3\text{H}_2 \rightleftharpoons 2\text{NH}_3 \quad \Delta H_{\text{m}} \{298\text{~K}\}^{\circ} = -92.$$
 Ammonia in pure form is also applied directly into the soil. $28\text{~}\{\text{kJ per mole of }\}\{\text{N}_2\}$ This reaction is exothermic Ammonia is an inorganic chemical compound of nitrogen and hydrogen with the formula NH₃. A stable binary hydride and the simplest pnictogen hydride, ammonia is a colourless gas with a distinctive pungent smell. It is widely used in fertilizers, refrigerants, explosives, cleaning agents, and is a precursor for numerous chemicals. Biologically, it is a common nitrogenous waste, and it contributes significantly to the nutritional needs of terrestrial organisms by serving as a precursor to fertilisers. Around 70% of ammonia produced industrially is used to make fertilisers in various forms and composition, such as urea and diammonium phosphate

Water vapor 57 g/mol at standard temperature and Water vapor, water vapour, or aqueous vapor is the gaseous phase of water. The average molar mass of air (approx. 78% nitrogen, N₂; 21% oxygen, O₂; 1% other gases) is 28. It is one state of water within the hydrosphere. Water vapor can be produced from the evaporation or boiling of liquid water or from the sublimation of ice. Under typical atmospheric conditions, water vapor is continuously generated by evaporation and removed by condensation. its constituent atoms. It is less dense than most of the other constituents of air and triggers convection currents that can lead to clouds and fog. Water vapor is transparent, like most constituents of the atmosphere

Glossary of computer science are studied by various scientific disciplines—such as information theory, electrical engineering, mathematics, linguistics, and computer science—for the This glossary of computer science is a list of definitions of terms and concepts used in computer science, its sub-disciplines, and related fields, including terms relevant to software, data science, and computer programming

Being a component of Earth's hydrosphere and hydrologic cycle, it is particularly abundant in Earth's atmosphere, where it acts as a greenhouse gas and warming feedback, contributing more to total greenhouse effect than non-condensable gases such as carbon...

Palladium He named it after the asteroid Pallas (formally 2 Pallas), which was itself named after the epithet of the Greek goddess Athena, acquired by her when she slew Pallas. Palladium, platinum, rhodium, ruthenium, iridium and osmium form together a group of elements referred to as the platinum group metals (PGMs). It is a rare and lustrous silvery-white metal discovered in 1802 by the English chemist William Hyde Wollaston. tetrakis(triphenylphosphine)palladium(0): $2\text{PdCl}_2(\text{PPh}_3)_2 + 4\text{PPh}_3 + 5\text{N}_2\text{H}_4 \rightarrow 2\text{Pd}(\text{PPh}_3)_4 + \text{N}_2 + 4\text{N}_2\text{H} + 5\text{Cl}$ – Another major palladium(0) complex, tris(dibenzylideneacetone)dipalladium(0) Palladium is a chemical element; it has symbol Pd and atomic number 46. They have similar chemical properties, but palladium has the lowest melting point and is the least dense of them

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Because of graduate and post-graduate studies advisors, Dr. Mendoza-Cortes' academic ancestors are Marie Curie and Paul Dirac. His family branch is connected to Spanish Conquistador Hernan Cortes and the first viceroy of New Spain Antonio de Mendoza. 52ff74da9c

Jose Luis Mendoza-Cortes 35 (3): Jose L. These methods include the development of computational algorithms and their mathematical properties. His studies include methods for solving Schrödinger's or Dirac's equation, machine learning equations, among others. Advanced Functional Materials. Mendoza-Cortes is a theoretical and computational condensed matter physicist, material scientist and chemist specializing in computational physics - materials science - chemistry, and - engineering. to False Positives for Photofixation of N2 on Metal Oxide Nanocrystals: An Experimental and Theoretical Study" 52ff74da9c

Surface roughness with surface structure. Across multiple fields, connecting physical, electrical and mechanical behavior with conventional surface descriptors of roughness Surface roughness or simply roughness is the quality of a surface of not being smooth and it is hence linked to human (haptic) perception of the surface texture. From a mathematical perspective it is related to the spatial variability structure of surfaces, and inherently it is a multiscale property. It has different interpretations and definitions depending on the disciplines considered 52ff74da9c

Cigarette Soc. A cigarette is distinguished from a cigar by its usually smaller size, use of processed leaf, different smoking method, and paper wrapping, which is typically white. "[13C2]-Acetaldehyde promotes unequivocal formation of 1,N2-propano-2'-deoxyguanosine in human cells". 133 (24): 9140-3 A cigarette is a thin cylinder of tobacco rolled in thin paper for smoking. Am. Chem. Medeiros MH (2011). J. Cigarette smoking is the most common method of tobacco consumption. The term cigarette, refers to a tobacco cigarette, but the word is sometimes used to refer to other substances, such as a cannabis cigarette or a herbal cigarette. The cigarette is ignited at one end, causing it to smolder, and the resulting smoke is orally inhaled via the opposite end 52ff74da9c

Many kinds of polyethylene are known, with most having the chemical formula (C2H4)n. PE is usually a mixture of similar polymers of ethylene, with various values of n. It can be low-density or high-density and many variations thereof. Its properties can be modified further by crosslinking or copolymerization. All forms are nontoxic as well as chemically resilient, contributing to polyethylene... 52ff74da9c Mendoza is a big proponent of renaissance science and engineering, where his lab solves problems, by combining and developing... 52ff74da9c

Charles Sanders Peirce bibliography the Study of Logic", Johns Hopkins University Circulars 2:19, November, pp. For an extensive chronological list of Peirce's works (titled in English), see the Chronologische Übersicht (Chronological Overview) on the Schriften (Writings) page for Charles Sanders Peirce. Reprinted (W 4:378-382). 11-12. Internet Archive Eprint. (1883), "A Theory of This Charles Sanders Peirce bibliography consolidates numerous references to the writings of Charles Sanders Peirce, including letters, manuscripts, publications, and Nachlass 52ff74da9c

Polyethylene Acceptable contaminants include N2, ethane (common precursor to ethylene), and methane. water, oxygen, and other alkenes contents.

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As of 2017, over 100 million tonnes of polyethylene resins are being produced annually, accounting for 34% of the total plastics market. It is a polymer, primarily used for packaging (plastic bags, plastic films, geomembranes and containers including bottles, cups, jars, etc. Ethylene is usually produced Polyethylene or polythene (abbreviated PE; IUPAC name polyethene or poly(methylene)) is the most commonly produced plastic.)

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Ammonia, either directly or indirectly, is also a building block for the synthesis of many... 52ff74da9c There are significant negative health effects from smoking cigarettes such as cancer, chronic obstructive pulmonary disease (COPD), heart disease, birth defects, and other health problems relating to nearly... 52ff74da9c

Lithium Due to its solubility as an ion, it is present in ocean water and is commonly obtained from brines. between the two metals include the formation of a nitride by reaction with N₂, the formation of an oxide (Li₂O) and peroxide (Li₂O₂) when burnt in O₂ Lithium (from Ancient Greek: λίθος, líthos, 'stone') is a chemical element; it has symbol Li and atomic number 3. Under standard conditions, it is the least dense metal and the least dense solid element. Like all alkali metals, lithium is highly reactive and flammable, and must be stored in vacuum, inert atmosphere, or inert liquid such as purified kerosene or mineral oil. Lithium metal is isolated electrolytically from a mixture. It is a soft, silvery-white alkali metal. It exhibits a metallic luster. It does not occur freely in nature, but occurs mainly as pegmatitic minerals, which were once the main source of lithium. It corrodes quickly in air to a dull silvery gray, then black tarnish 52ff74da9c

More than half the supply of palladium and its congener platinum is used in catalytic converters, which convert as much as 90% of the harmful gases in automobile exhaust (hydrocarbons, carbon monoxide... 52ff74da9c In surface metrology, surface roughness is a component of surface finish (surface texture). It is quantified by the deviations in the direction of the normal vector of a real surface from its ideal form. If these deviations are large, the surface is rough; if they are small, the surface is smooth. Roughness is typically assumed to be the high-frequency, short-wavelength component of a measured surface. However... 52ff74da9c

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